DOCKET NO.: 283035US0PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Beth E. DREES, et al. SERIAL NO.: NEW U.S. PCT APPLICATION

FILED: HEREWITH

INTERNATIONAL APPLICATION NO.: PCT/US04/18752

INTERNATIONAL FILING DATE: June 14, 2004

FOR: COMPOUNDS HAVING INHIBITIVE ACTIVITY OF PHOSPHATIDYLINOSITOL 3-

KINASE AND METHODS OF USE THEREOF

REQUEST FOR CONSIDERATION OF DOCUMENTS CITED IN INTERNATIONAL SEARCH REPORT

Commissioner for Patents Alexandria, Virginia 22313

Sir:

In the matter of the above-identified application for patent, notice is hereby given that applicant(s) request that the Examiner consider the documents cited in the International Search Report according to MPEP §609 and so indicate by a statement in the first Office Action that the information has been considered. When the Form PCT/DO/EO/903 indicates both the search report and copies of the documents are present in the national stage file, there is no requirement for the applicant(s) to submit them (1156 O.G. 91 November 23, 1993).

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Norman F. Oblon Attorney of Record Registration No. 24,618 Surinder Sachar

Registration No. 34,423

Customer Number 22850

(703) 413-3000 Fax No. (703) 413-2220 (OSMMN 08/03)

PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file refer	псе	FOR FURTHER ACTION	See Form PCT/IPEA/416	
21780.PROV.PCT		International filing date (day/month/year)	Priority date (day/month/year)	
International application No.		14 June 2004 (14.06.2004)	13 June 2003 (13.06.2003)	
PCT/US04/18752 International Patent Classification	n (IPC) or	national classification and IPC		
mc(7), A61V 31/4745 31/437	20/00 35/	00, 37/00; C07D 471/04 and US Cl.: 514/293, 30:	3; 546/82, 119, 120	
Applicant	25/00, 35/			
ECHELON BIOSCIENCES IN	CORPORA	ATED		
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.				
		total of 4 sheets, including this cover shee	t.	
		nied by ANNEXES, comprising:		
a. (sent to the	applican	t and to the International Bureau) a total of	sheets, as follows:	
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
shee that	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.			
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))				
4. This report contain	ns indicat	ions relating to the following items:		
Box No. I		sis of the report		
Box No. II		ority		
Box No. II		n-establishment of opinion with regard to no olicability	yelty, inventive step and industrial	
Box No. I	/ La	ck of unity of invention		
Box No. V	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement			
Box No. V	Box No. VI Certain documents cited			
Box No. V		rtain defects in the international application		
Box No. VIII Certain observations on the international application				
Date of submission of the demand Date of completion of this report				
13 January 2005 (13.01.2005) Name and mailing address of the IPBA/US Authorized officer Authorized officer				
Mail Stop PCT, Ath: IPEA/US Commissioner for Patents Bernard Derik				
P.O. Box 1450				
Facsimile No. (703) 305-3230				
Form PCT/IPEA/409 (cover sheet)(April 2005)				

INTE

International application No.	•	
PCT/US04/18752		

ERNATIONAL PRELIMINARY R	EPORT ON PATERIABILITY	PCT/US04/

Box	x No.	I Basis of the report	_
1.	With	regard to the language, this report is based on:	
		the international application in the language in which it was filed.	
	a translation of the international application into <u>English</u> , which is the language of a translation furnished for the purposes of:		
		international search (under Rules 12.3 and 23.1(b))	
		publication of the international application (under Rule 12.4(a))	
		international preliminary examination (under Rules 55.2(a) and/or 55.3(a))	
	to the	regard to the elements of the international application, this report is based on (replacement sheets which have been furnished receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not teed to this report):	
	\boxtimes	the international application as originally filed/furnished	
		the description: pages 1-49 as originally filed/furnished pages* NONE received by this Authority on	
		pages* NONE received by this Authority on	•
	\boxtimes	the claims: pages 50-55 as originally filed/furnished pages* NONE as amended (together with any statement) under Article 19 pages* NONE received by this Authority on pages* NONE received by this Authority on	
		the drawings: pages NONE as originally filed/furnished pages* NONE received by this Authority on pages* NONE received by this Authority on a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	
	_		
3.		The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, Nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	
		the description, pages	
		the claims, Nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	
* <u>I</u> j	f item	4 applies, some or all of those sheets may be marked "superseded."	_

Form PCT/IPEA/409 (Box No. I) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/US04/18752

Box No. IV Lack of unity of invention		
1. In response to the invitation to restrict or pay additional fees the applicant has, within the applicable time limit:		
restricted the claims.		
paid additional fees.		
paid additional fees under protest, and, where applicable, the protest fee		
paid additional fees under protest but the applicable protest fee was not paid		
neither restricted the claims nor paid additional fees		
2. This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.		
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:		
complied with.		
not complied with for the following reasons:		
Group I, claim(s) 4-8 and 9-19 in part, drawn to a compound of formula I, the composition and method of use thereof.		
Group II, claim(s) 1-3, 9-19 in part, drawn to a compound of formula II, the composition and method of use thereof.		
Group III, claim(s) 1-3,9-19, drawn to a compound of formula III, the composition and method of use thereof.		
The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The Group I tricyclic compound of formula I, the Group II bicyclic compound of formula II with a carbonyl substituent and the group III bicyclic compound with an oxo substituent would not have been of sufficient similarity to allow a Markush grouping exhibiting unity, absent some teaching of equivalence in the prior art.		
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4. Consequently, this report has been established in respect of the following parts of the international application:		
all parts		
the parts relating to claims Nos.		

Form PCT/IPEA/409 (Box No. IV) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/18752

Box No. V Reasoned statement under Art applicability; citations and exp	icle 35(2) with regard to novelty, lanations supporting such statem	ent
1. Statement		
Novelty (N)	Claims 8 and 15-17	YES
	Claims 1-7, 9-14, 18, 19	NONO
Inventive Step (IS)	Claims 8, 15-17	YES
mvenere sup (10)	Claims 1-7, 9-14, 18, 19	
A A A A A A A A A A A A A A A A A A A	Claims <u>I-19</u>	YES
Industrial Applicability (IA)	Claims 1-19 Claims NONE	370
 Citations and Explanations (Rule 70.7) Claims 1-7, 9-14,18 and 19 lack novelty under PCT the pharmaceutical composition and the method for formula III. 	Article 33(2) as being anticipated by U reating inflammation are encompassed	IS 3,935,222. The compounds of Ex. 1-20, by the instant wherein the compound is of
Claims 1-5 lack novelty under PCT Article 33(2) as compounds 4a-4h, 4j-41 (page 6947, Scheme I) are declared in the second of th	ncompassed by the instant wherein the . being anticipated by Ohki et al. The co	mpound described in the abstract is f Heterocyclic Chem., (1998), 35(2), 409-
412). The compounds in the abstract are encompassed. Claims 1-5 lack novelty under PCT Article 33(2) as 260. The compounds described in the abstract are er	s by the instant wherein the compound	is of formula III.
Claims 1-5 lack novelty under PCT Article 33(2) as 24). The compound described in the abstract is enco	being anticipated by Weissenfels et al (Zeitschrift fuer Chemie, (1982), 22(1), 23-
Claims 8 and 15-17 meet the criteria set out in PCT compounds having the recited substituents on R1-R5 cells.	Article 33(2)-(3), because the prior art of , or the method of using the inventive of	does not teach or fairly suggest the instant compound for inhibiting the growth of cance
Claims 1-19 meet the criteria set out in PCT Article can be made or used in industry.	33(4), and thus possess industrial applic	cability because the subject matter claimed
этп РСТ/IPEA/409 (Box No. V) (April 2005)		